

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022223\
 Data File : BG056700.D
 Acq On : 22 Feb 2023 16:36
 Operator : CG/JU
 Sample : 01640-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-2

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/23/2023
 Supervised By : Jagrut Upadhyay 02/23/2023

Quant Time: Feb 23 01:46:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 23 01:45:41 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.432	152	21006	20.000	ng	0.00
21) Naphthalene-d8	11.264	136	86591	20.000	ng	# 0.00
39) Acenaphthene-d10	15.030	164	58746	20.000	ng	0.00
64) Phenanthrene-d10	17.768	188	123833	20.000	ng	0.00
76) Chrysene-d12	22.087	240	108524	20.000	ng	0.00
86) Perylene-d12	25.624	264	120977	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.935	112	141263	109.419	ng	0.00
7) Phenol-d6	7.557	99	206094	108.069	ng	0.00
23) Nitrobenzene-d5	9.601	82	134480	79.518	ng	0.00
42) 2,4,6-Tribromophenol	16.511	330	82360	102.399	ng	0.00
45) 2-Fluorobiphenyl	13.661	172	279857	63.791	ng	0.00
79) Terphenyl-d14	20.336	244	422579	63.708	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.317	128	94006	19.588	ng	99
37) 2-Methylnaphthalene	12.892	142	171266	45.198	ng	99
38) 1-Methylnaphthalene	13.109	142	151036	42.716	ng	95
46) 1,1'-Biphenyl	13.873	154	35107	7.889	ng	98
49) Acenaphthylene	14.760	152	62747	10.966	ng	# 87
52) Acenaphthene	15.095	154	54733	15.507	ng	93
55) Dibenzofuran	15.424	168	62896	10.548	ng	# 83
58) Fluorene	16.070	166	219302	46.515	ng	98
71) Phenanthrene	17.821	178	1468845	218.022	ng	99
72) Anthracene	17.903	178	227463	32.996	ng	100
73) Carbazole	18.162	167	25271	4.252	ng	96
75) Fluoranthene	19.801	202	910256	102.397	ng	99
78) Pyrene	20.160	202	1136252	138.636	ng	97
81) Benzo(a)anthracene	22.063	228	421319	52.204	ng	95
83) Chrysene	22.134	228	412561m	54.681	ng	
87) Indeno(1,2,3-cd)pyrene	29.713	276	171156	18.065	ng	# 57
88) Benzo(b)fluoranthene	24.496	252	365292	46.219	ng	97
89) Benzo(k)fluoranthene	24.560	252	145033m	18.661	ng	
90) Benzo(a)pyrene	25.465	252	362793m	47.754	ng	
91) Dibenzo(a,h)anthracene	29.772	278	47921	6.107	ng	# 87
92) Benzo(g,h,i)perylene	31.000	276	166477	21.712	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

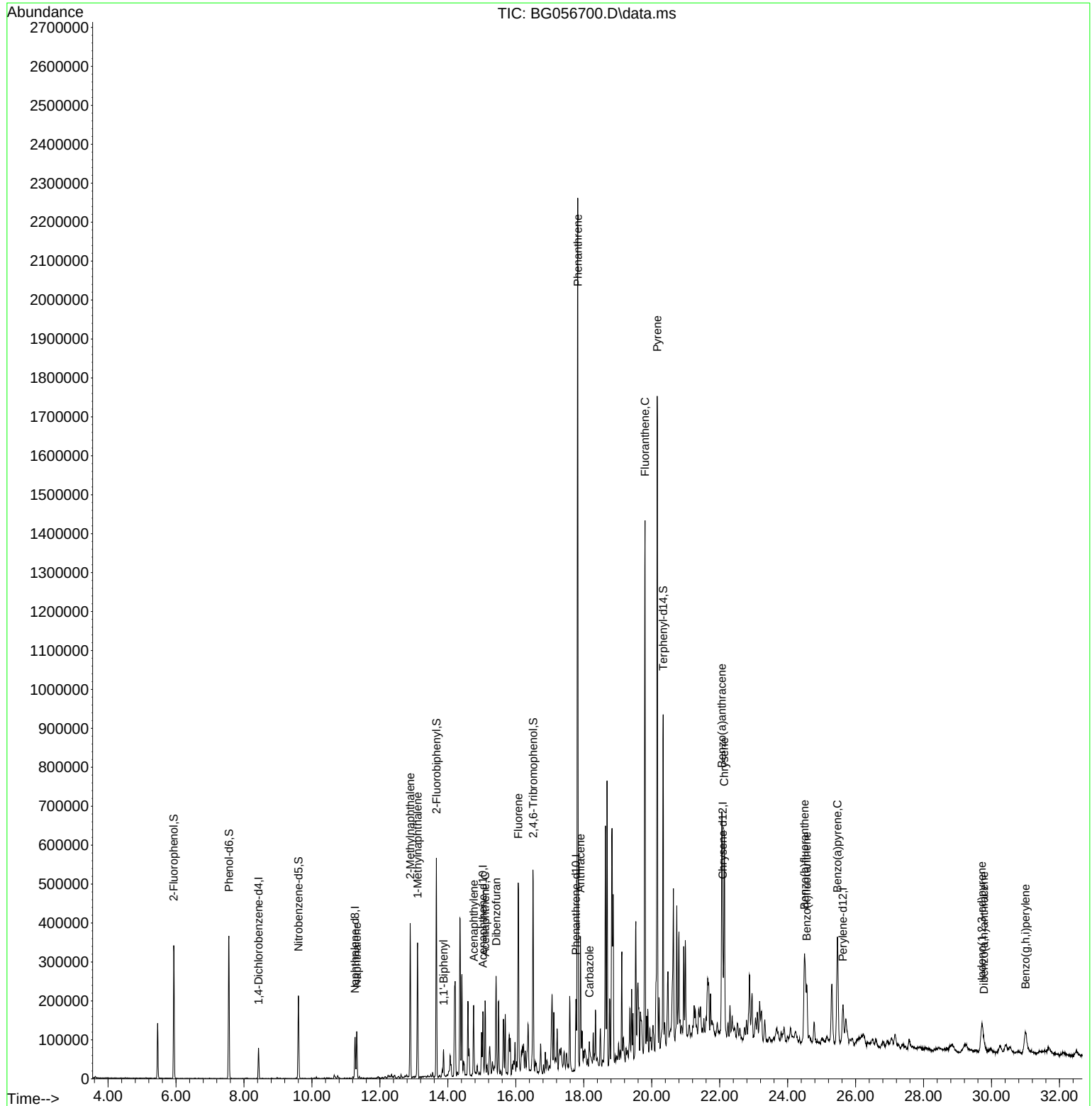
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022223\
Data File : BG056700.D
Acq On : 22 Feb 2023 16:36
Operator : CG/JU
Sample : 01640-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

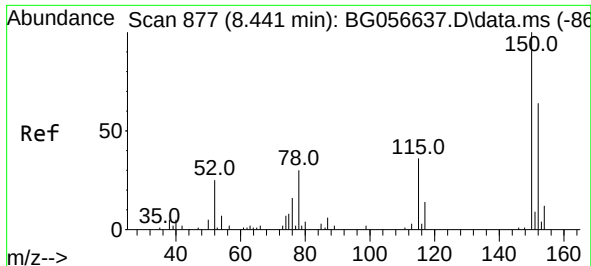
Instrument :
BNA_G
ClientSampleId :
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Quant Time: Feb 23 01:46:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 23 01:45:41 2023
Response via : Initial Calibration

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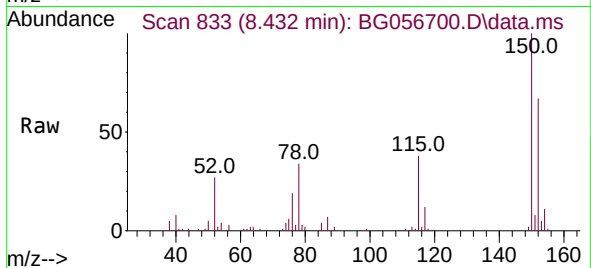
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.432 min Scan# 84
Delta R.T. 0.005 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

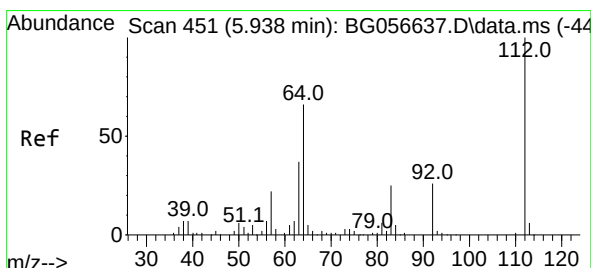
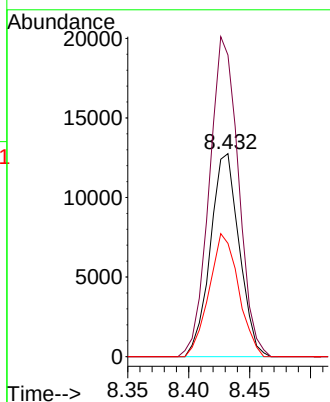
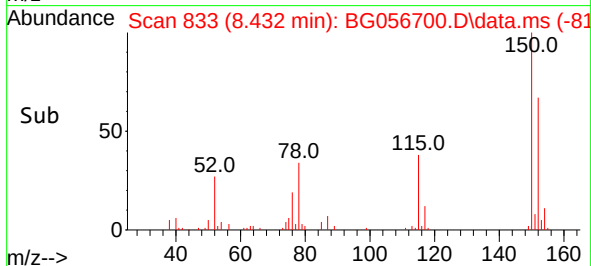
Instrument :
BNA_G
ClientSampleId :
TP-2



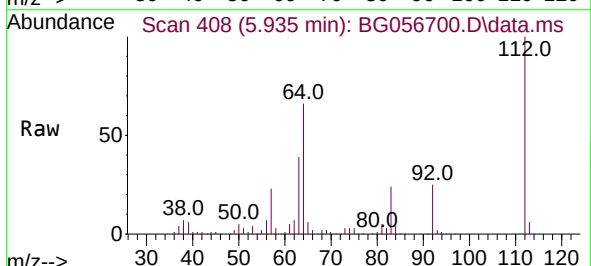
Tgt Ion:152 Resp: 21000
Ion Ratio Lower Upper
152 100
150 148.5 124.8 187.2
115 55.7 44.7 67.1

Manual Integrations
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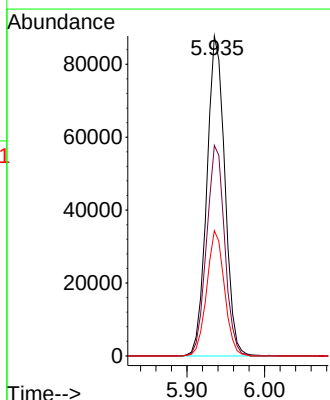
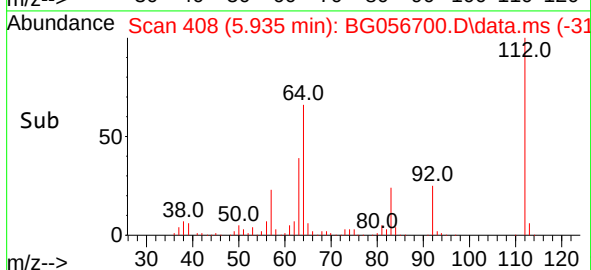
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

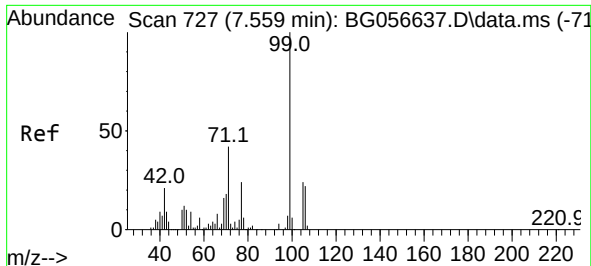


#5
2-Fluorophenol
Concen: 109.419 ng
RT: 5.935 min Scan# 408
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



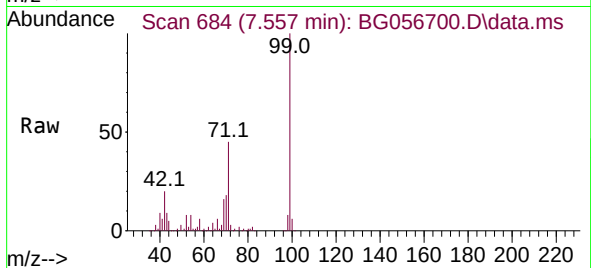
Tgt Ion:112 Resp: 141263
Ion Ratio Lower Upper
112 100
64 65.8 52.6 78.8
63 39.1 29.8 44.6





#7
Phenol-d6
Concen: 108.069 ng
RT: 7.557 min Scan# 684
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

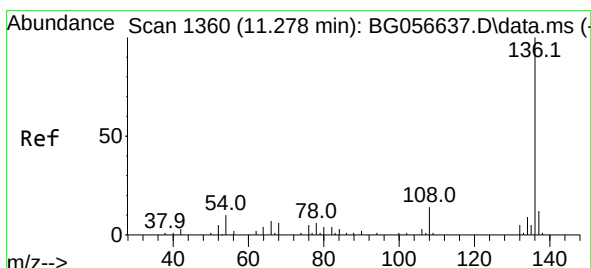
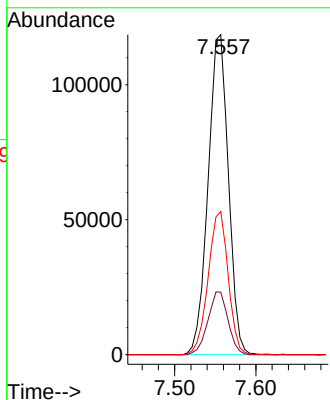
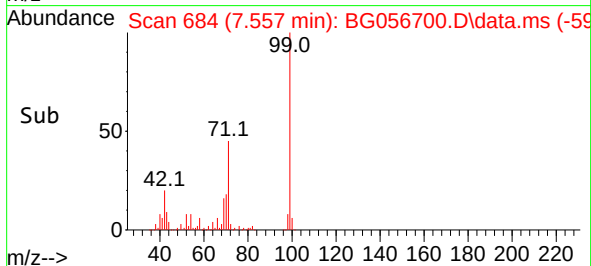
Instrument :
BNA_G
ClientSampleId :
TP-2



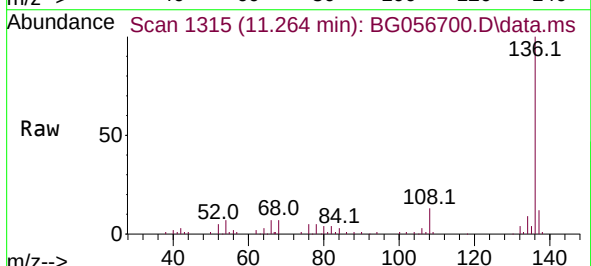
Tgt Ion: 99 Resp: 206094
Ion Ratio Lower Upper
99 100
42 19.5 16.8 25.2
71 44.7 33.9 50.9

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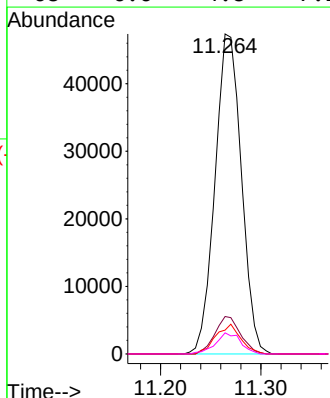
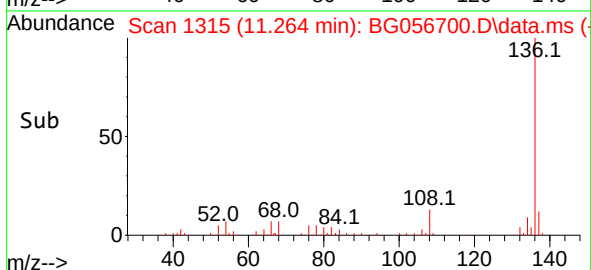
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

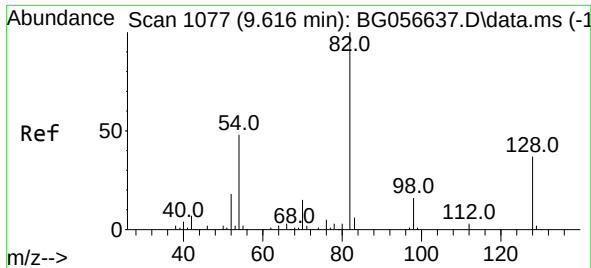


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.264 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



Tgt Ion:136 Resp: 86591
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 7.4 7.7 11.5#
68 6.6 4.8 7.2





#23
Nitrobenzene-d5
Concen: 79.518 ng
RT: 9.601 min Scan# 1077
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Instrument :

BNA_G

ClientSampleId :

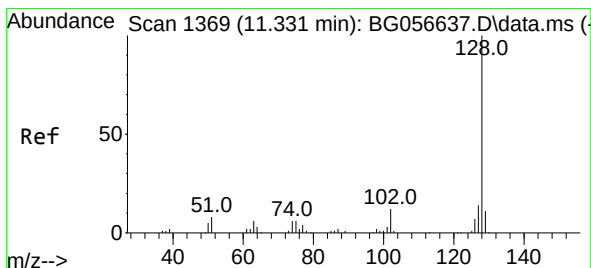
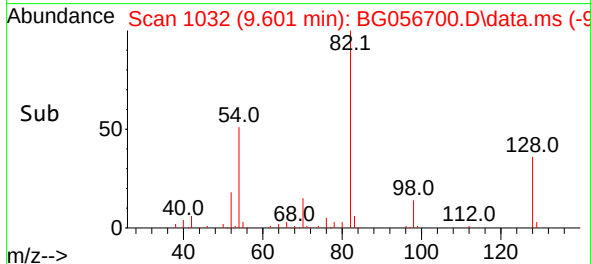
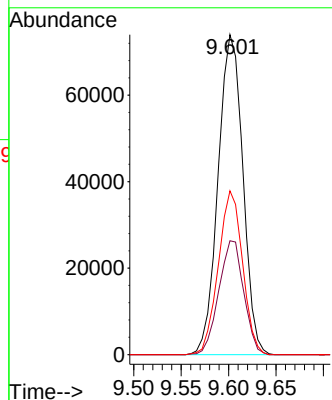
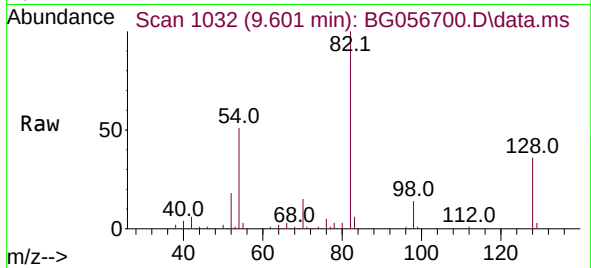
TP-2

Tgt Ion: 82 Resp: 134480
Ion Ratio Lower Upper
82 100
128 35.6 29.4 44.2
54 51.2 37.8 56.6

Manual Integrations

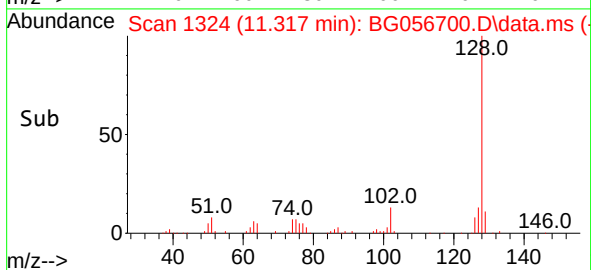
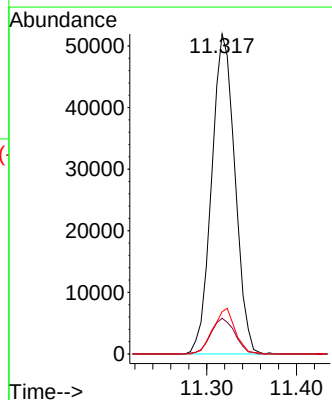
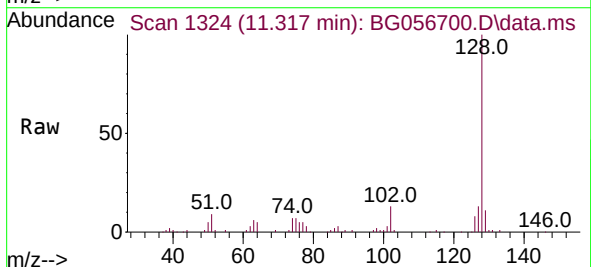
APPROVED

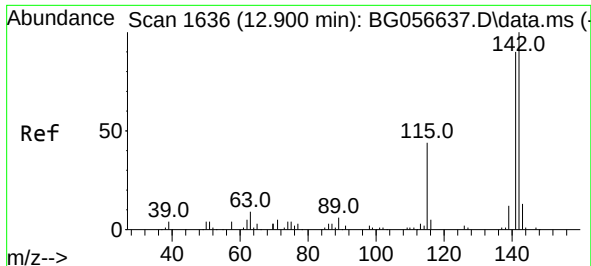
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#31
Naphthalene
Concen: 19.588 ng
RT: 11.317 min Scan# 1324
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Tgt Ion:128 Resp: 94006
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.2 10.9 16.3





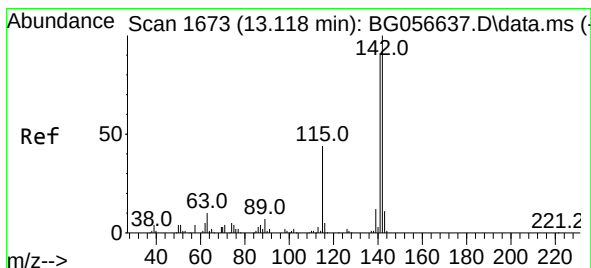
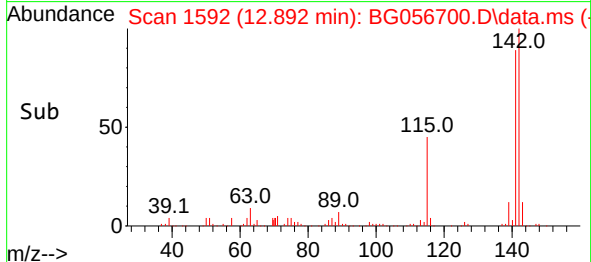
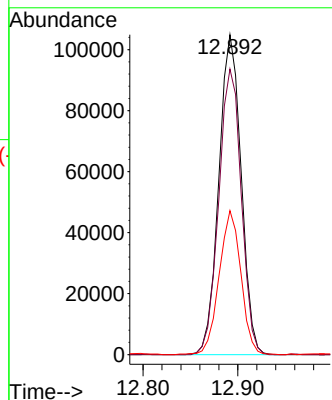
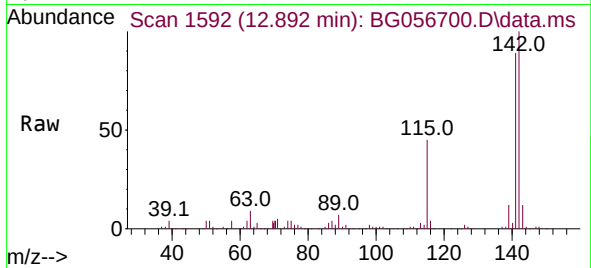
#37
2-Methylnaphthalene
Concen: 45.198 ng
RT: 12.892 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Instrument :
BNA_G
ClientSampleId :
TP-2

Tgt Ion:142 Resp: 171266
Ion Ratio Lower Upper
142 100
141 89.2 71.9 107.9
115 45.0 35.1 52.7

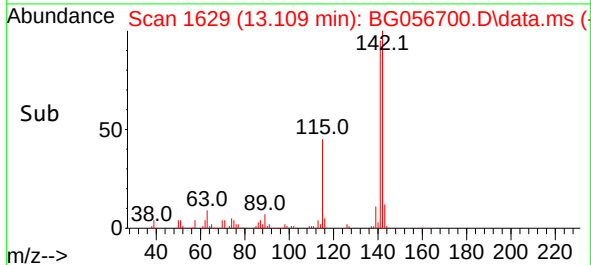
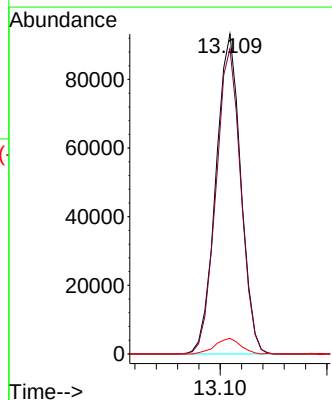
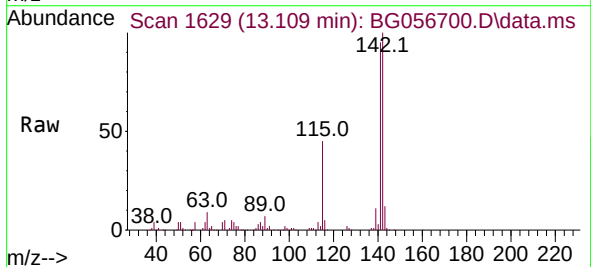
Manual Integrations
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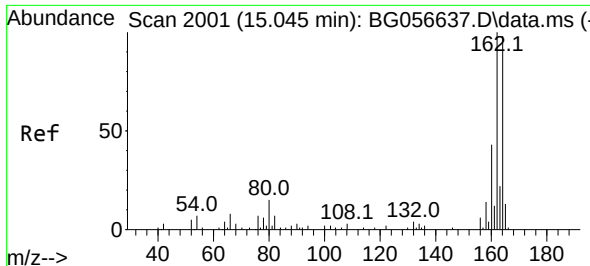
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#38
1-Methylnaphthalene
Concen: 42.716 ng
RT: 13.109 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

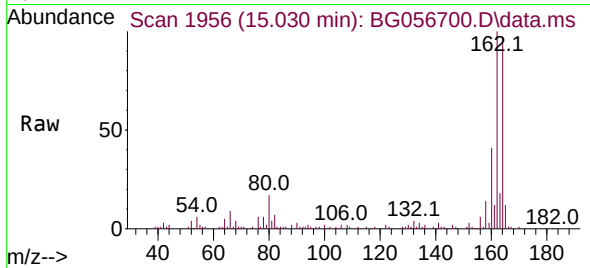
Tgt Ion:142 Resp: 151036
Ion Ratio Lower Upper
142 100
141 95.4 72.7 109.1
116 4.9 4.2 6.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.030 min Scan# 1956
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

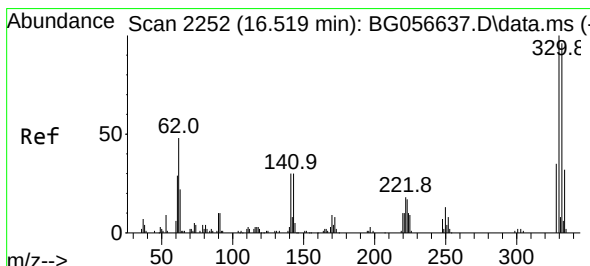
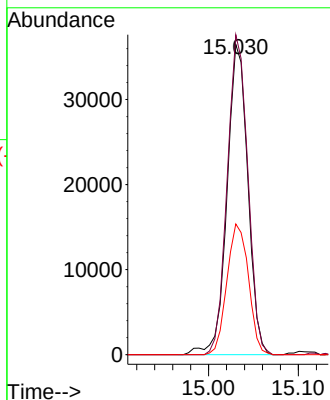
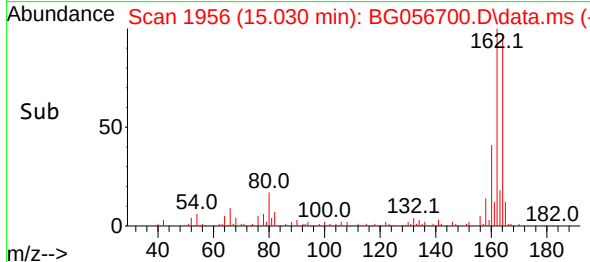
Instrument :
BNA_G
ClientSampleId :
TP-2



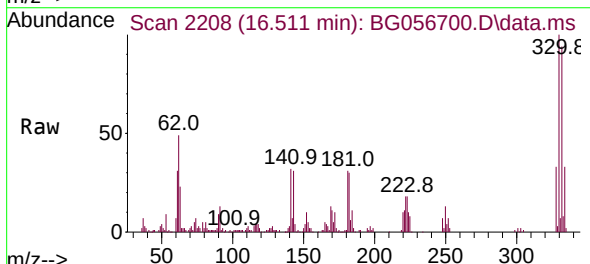
Tgt Ion:164 Resp: 58746
Ion Ratio Lower Upper
164 100
162 103.2 81.3 121.9
160 42.1 35.2 52.8

Manual Integrations
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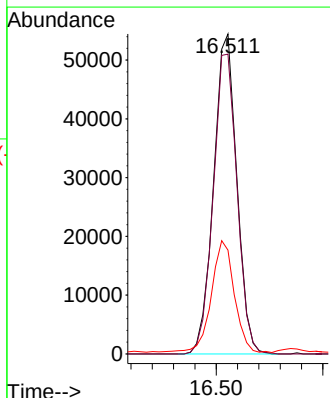
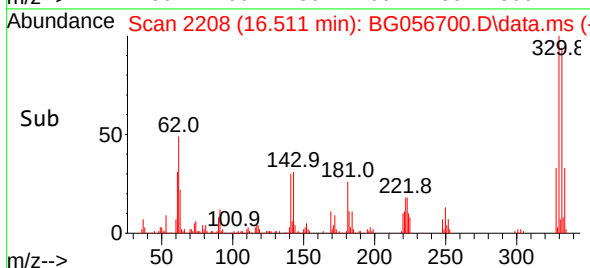
Reviewed By :Christian Giraldo 02/23/2023
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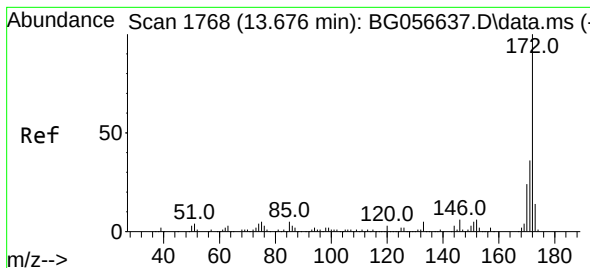


#42
2,4,6-Tribromophenol
Concen: 102.399 ng
RT: 16.511 min Scan# 2208
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



Tgt Ion:330 Resp: 82360
Ion Ratio Lower Upper
330 100
332 96.2 75.7 113.5
141 36.1 24.6 37.0





#45

2-Fluorobiphenyl

Concen: 63.791 ng

RT: 13.661 min Scan# 1723

Delta R.T. -0.006 min

Lab File: BG056700.D

Acq: 22 Feb 2023 16:36

Instrument :

BNA_G

ClientSampleId :

TP-2

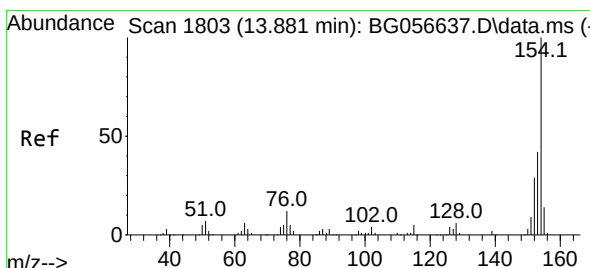
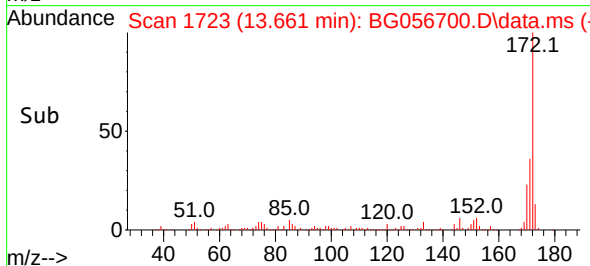
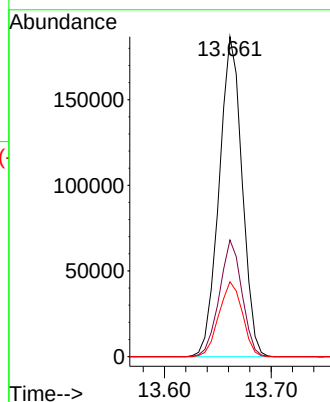
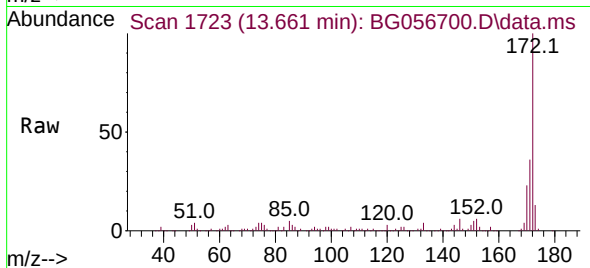
Tgt Ion:172 Resp: 27985

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	43.0
170	23.4	19.4	29.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/23/2023



#46

1,1'-Biphenyl

Concen: 7.889 ng

RT: 13.873 min Scan# 1759

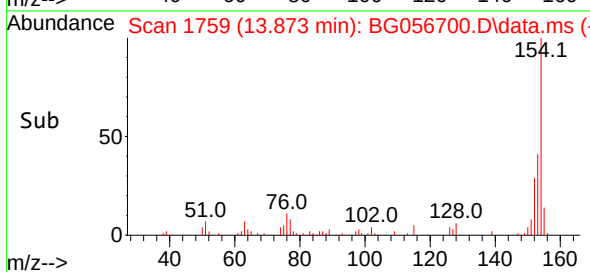
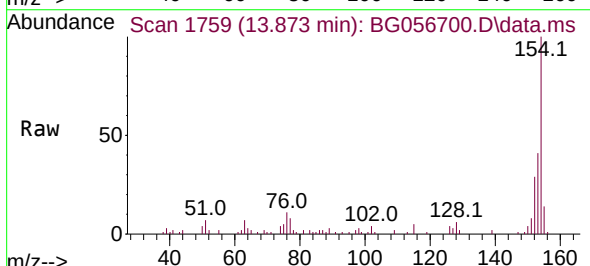
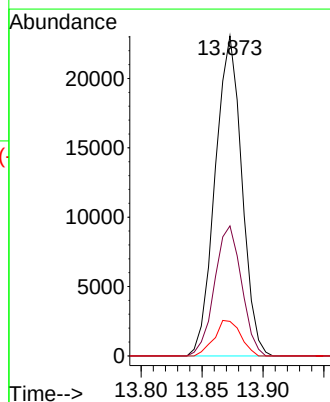
Delta R.T. -0.006 min

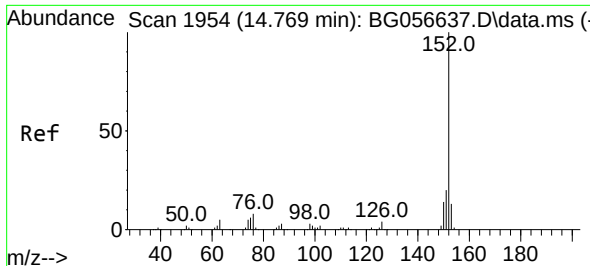
Lab File: BG056700.D

Acq: 22 Feb 2023 16:36

Tgt Ion:154 Resp: 35107

Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.9	61.9
76	10.8	0.0	31.9





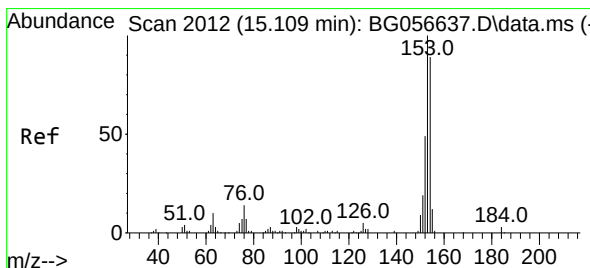
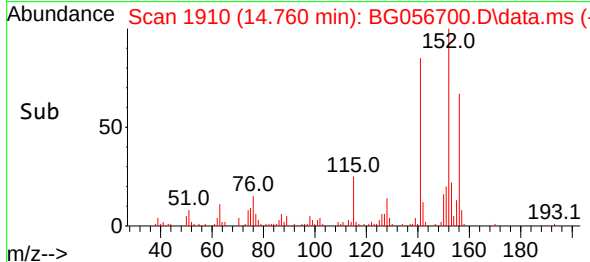
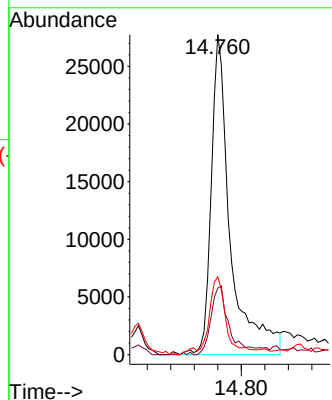
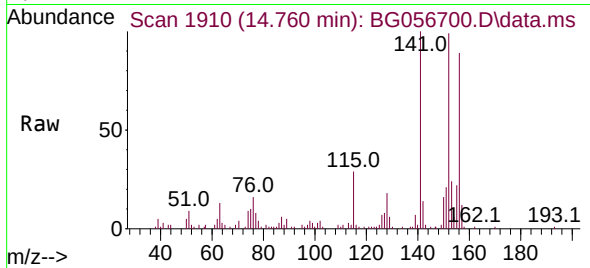
#49
Acenaphthylene
Concen: 10.966 ng
RT: 14.760 min Scan# 1954
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Instrument :
BNA_G
ClientSampleId :
TP-2

Tgt Ion:152 Resp: 6274
Ion Ratio Lower Upper
152 100
151 20.8 15.6 23.4
153 24.3 10.3 15.5

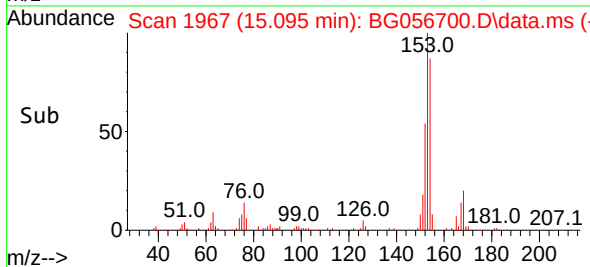
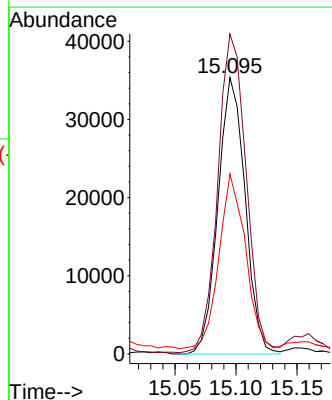
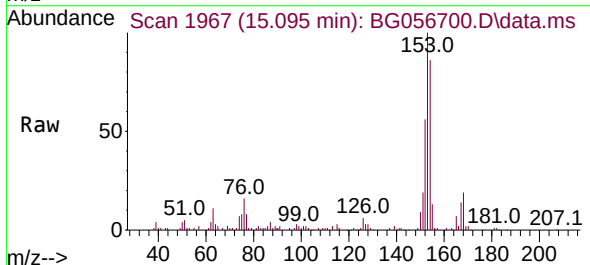
Manual Integrations
APPROVED

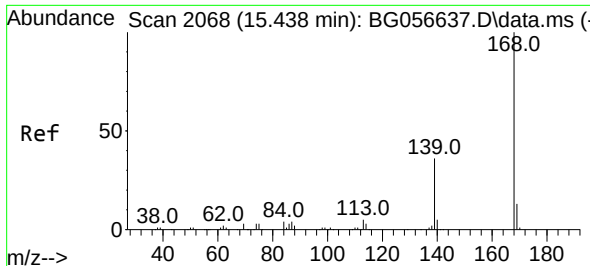
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#52
Acenaphthene
Concen: 15.507 ng
RT: 15.095 min Scan# 1967
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

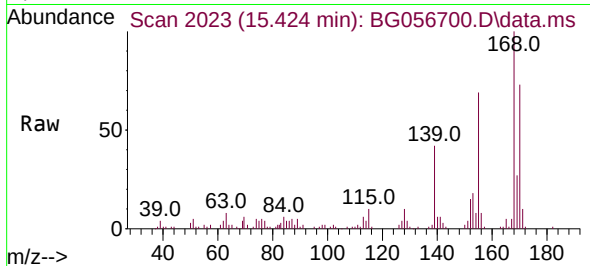
Tgt Ion:154 Resp: 54733
Ion Ratio Lower Upper
154 100
153 115.9 89.5 134.3
152 65.1 43.7 65.5





#55
Dibenzofuran
Concen: 10.548 ng
RT: 15.424 min Scan# 2068
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

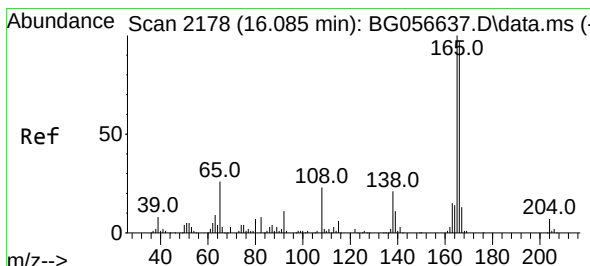
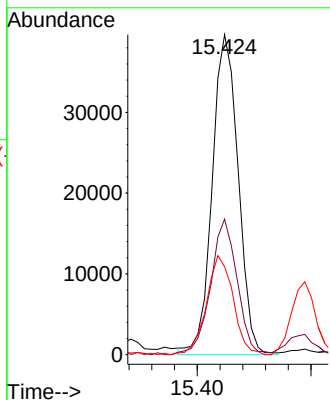
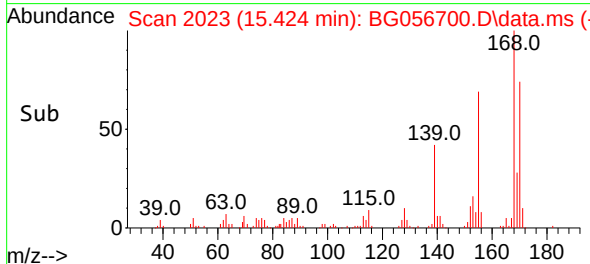
Instrument :
BNA_G
ClientSampleId :
TP-2



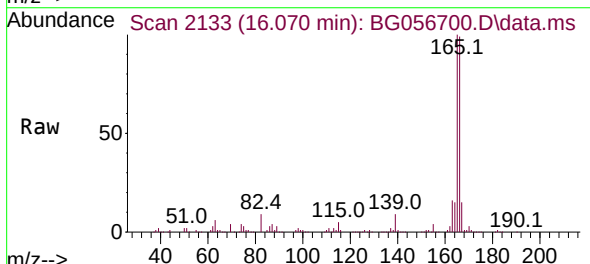
Tgt Ion:168 Resp: 62896
Ion Ratio Lower Upper
168 100
139 42.3 29.0 43.6
169 27.5 10.7 16.1

Manual Integrations
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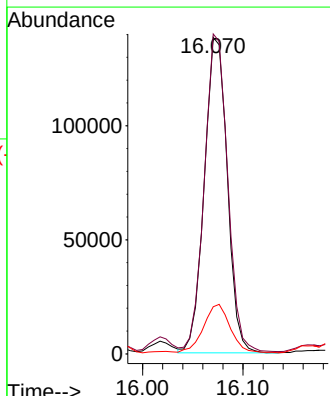
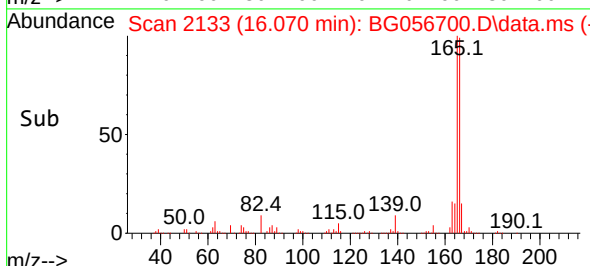
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

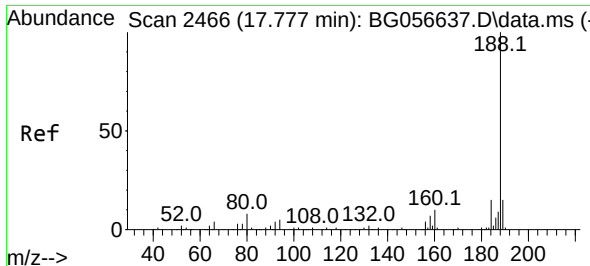


#58
Fluorene
Concen: 46.515 ng
RT: 16.070 min Scan# 2133
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



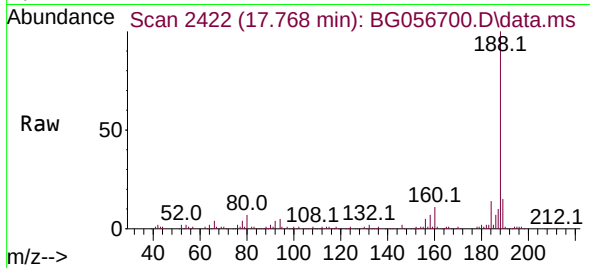
Tgt Ion:166 Resp: 219302
Ion Ratio Lower Upper
166 100
165 101.1 82.9 124.3
167 14.9 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.768 min Scan# 2466
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

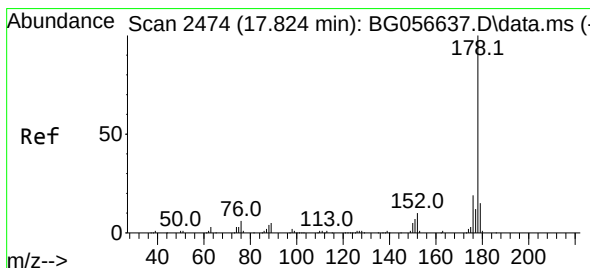
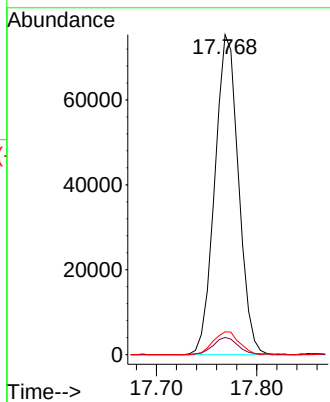
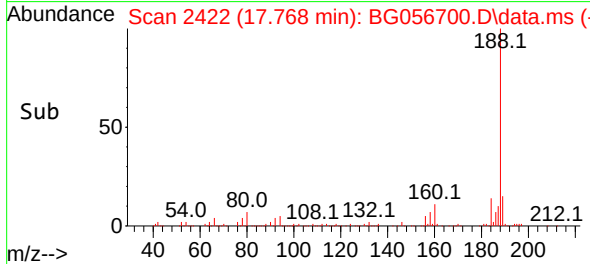
Instrument :
BNA_G
ClientSampleId :
TP-2



Tgt Ion:188 Resp: 123833
Ion Ratio Lower Upper
188 100
94 5.4 4.0 6.0
80 7.1 6.3 9.5

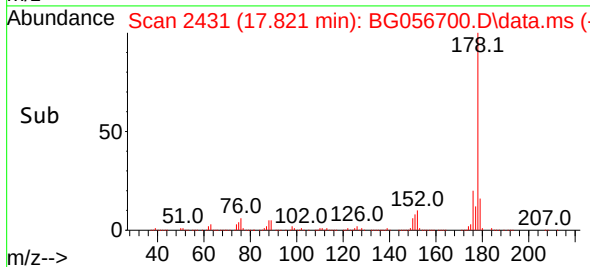
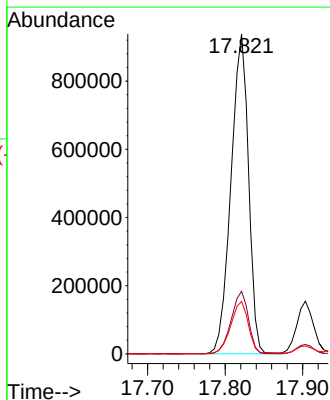
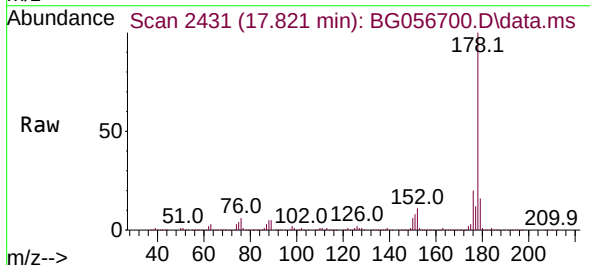
Manual Integrations
APPROVED

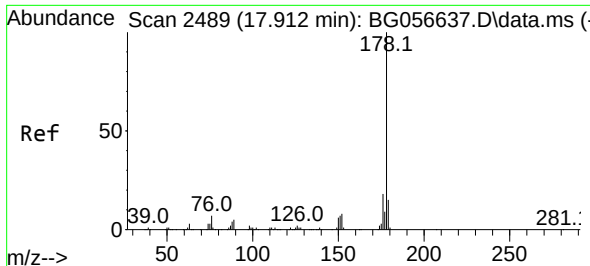
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#71
Phenanthrene
Concen: 218.022 ng
RT: 17.821 min Scan# 2431
Delta R.T. 0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

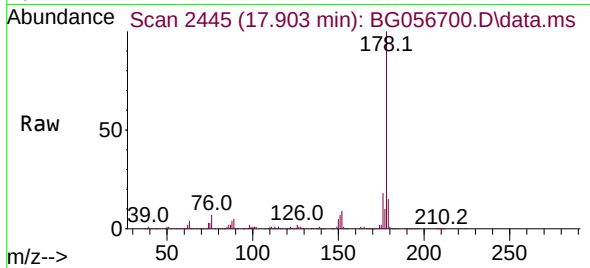
Tgt Ion:178 Resp: 1468845
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 16.4 12.2 18.4





#72
 Anthracene
 Concen: 32.996 ng
 RT: 17.903 min Scan# 2445
 Delta R.T. -0.000 min
 Lab File: BG056700.D
 Acq: 22 Feb 2023 16:36

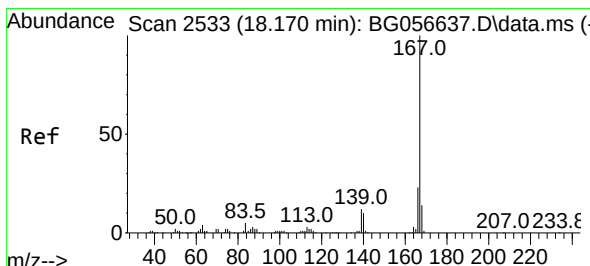
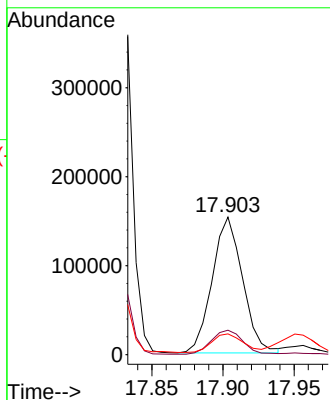
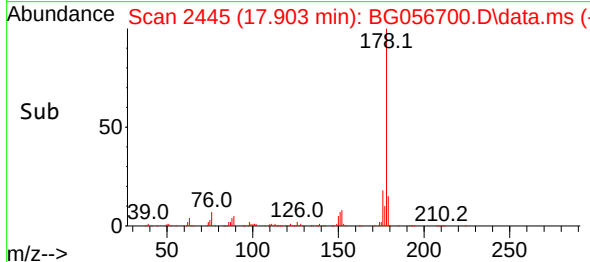
Instrument :
 BNA_G
 ClientSampleId :
 TP-2



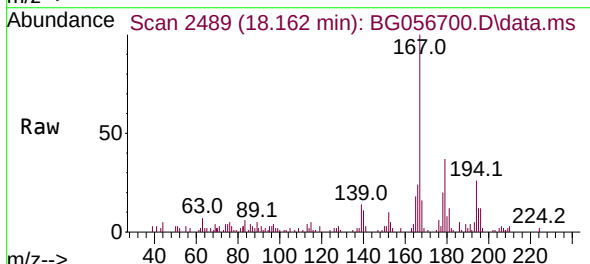
Tgt Ion:178 Resp: 227463
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.3 21.5
 179 15.1 12.2 18.4

Manual Integrations
 APPROVED

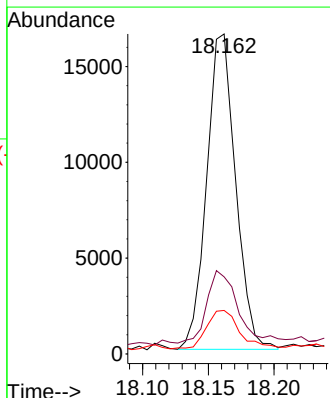
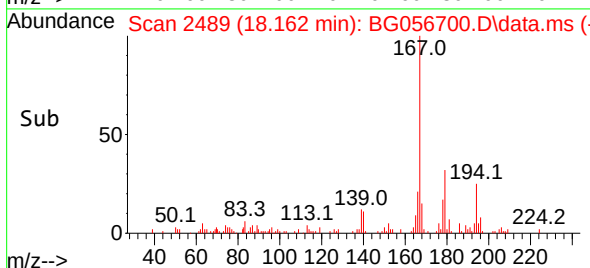
Reviewed By :Christian Giraldo 02/23/2023
 Supervised By :Jagrut Upadhyay 02/23/2023

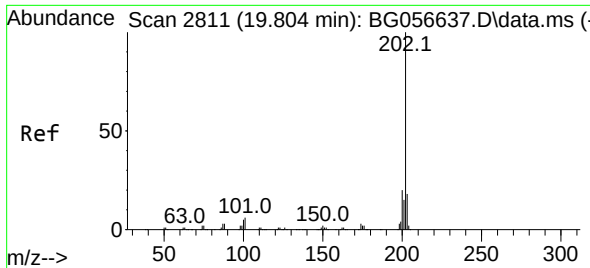


#73
 Carbazole
 Concen: 4.252 ng
 RT: 18.162 min Scan# 2489
 Delta R.T. -0.006 min
 Lab File: BG056700.D
 Acq: 22 Feb 2023 16:36



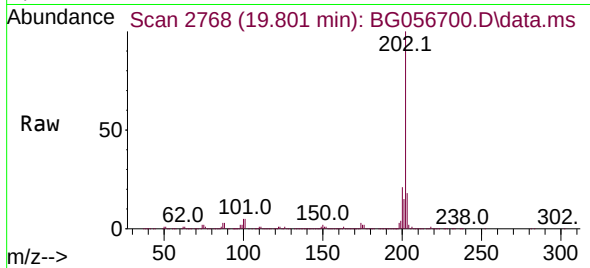
Tgt Ion:167 Resp: 25271
 Ion Ratio Lower Upper
 167 100
 166 24.1 18.1 27.1
 139 13.6 9.4 14.0





#75
Fluoranthene
Concen: 102.397 ng
RT: 19.801 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

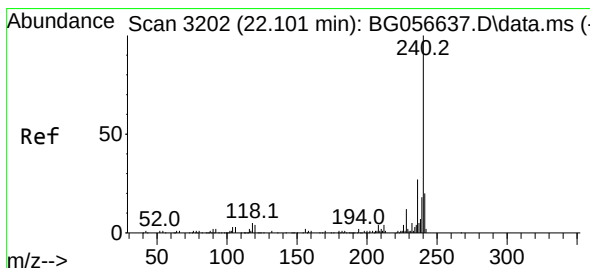
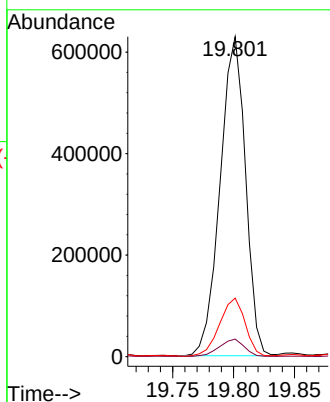
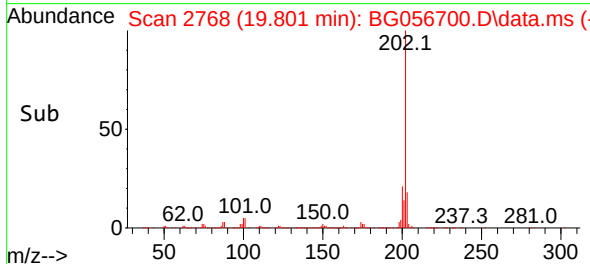
Instrument :
BNA_G
ClientSampleId :
TP-2



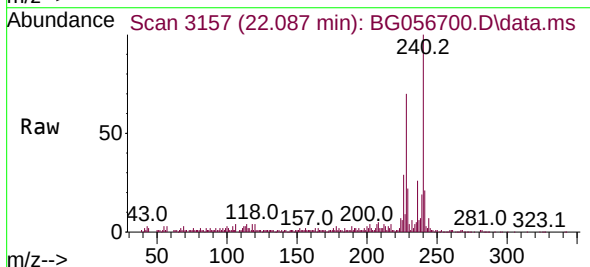
Tgt Ion:202 Resp: 910256
Ion Ratio Lower Upper
202 100
101 5.5 0.0 25.8
203 18.3 0.0 37.6

Manual Integrations
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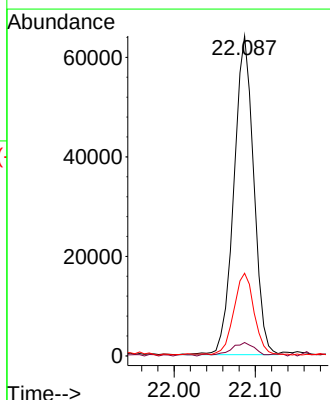
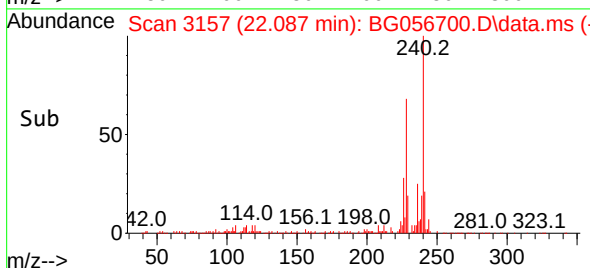
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

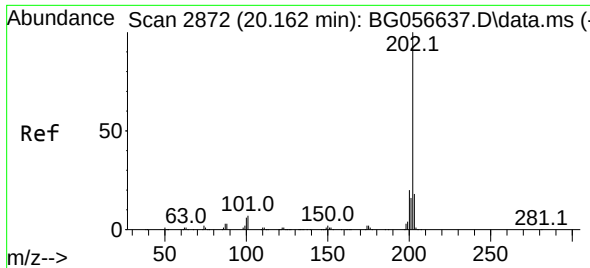


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.087 min Scan# 3157
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



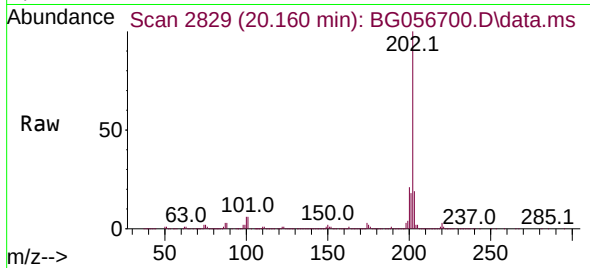
Tgt Ion:240 Resp: 108524
Ion Ratio Lower Upper
240 100
120 4.2 3.5 5.3
236 25.8 21.5 32.3





#78
Pyrene
Concen: 138.636 ng
RT: 20.160 min Scan# 2872
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

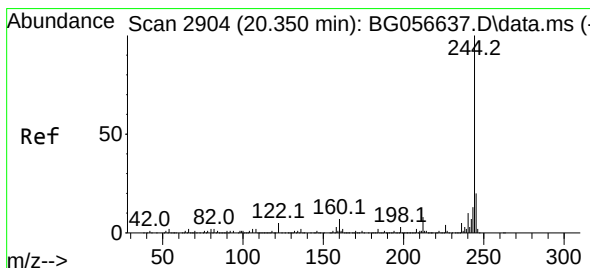
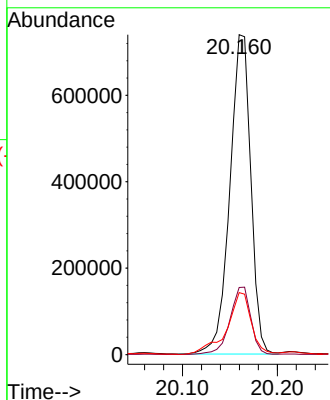
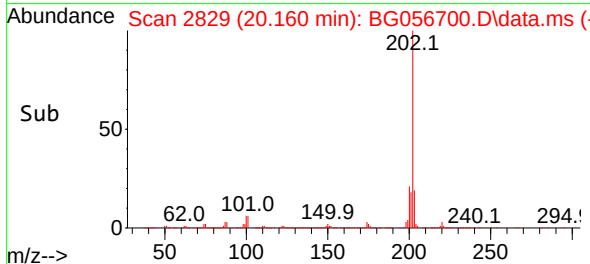
Instrument :
BNA_G
ClientSampleId :
TP-2



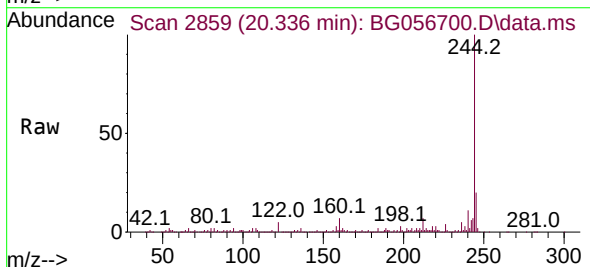
Tgt Ion:202 Resp: 1136252
Ion Ratio Lower Upper
202 100
200 21.0 15.8 23.8
203 19.4 14.2 21.4

Manual Integrations
APPROVED

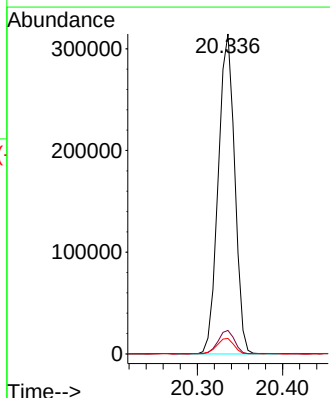
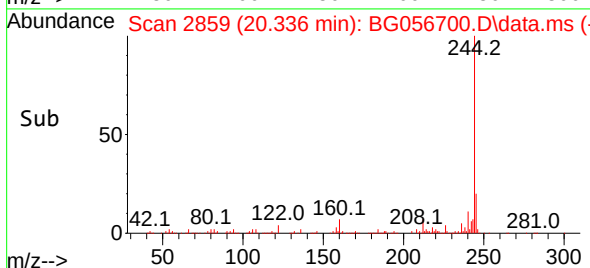
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

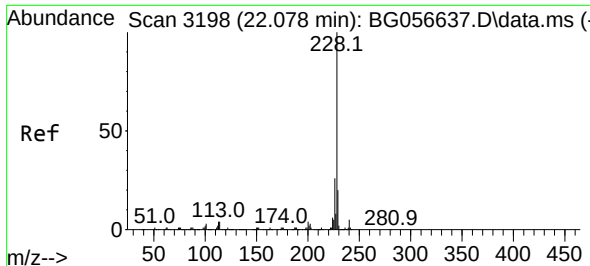


#79
Terphenyl-d14
Concen: 63.708 ng
RT: 20.336 min Scan# 2859
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



Tgt Ion:244 Resp: 422579
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 4.8 3.8 5.8





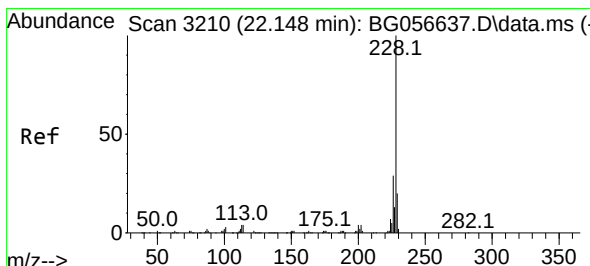
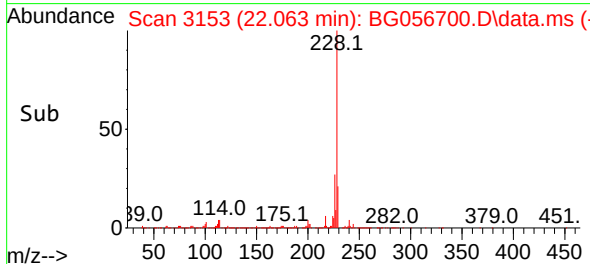
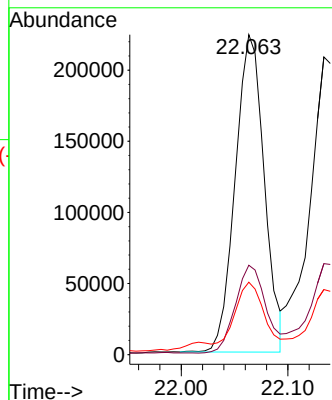
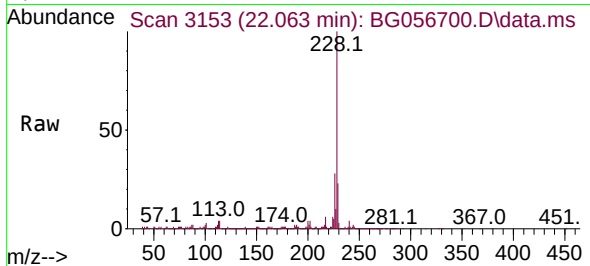
#81
Benzo(a)anthracene
Concen: 52.204 ng
RT: 22.063 min Scan# 3198
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Instrument :
BNA_G
ClientSampleId :
TP-2

Tgt Ion:228 Resp: 421319
Ion Ratio Lower Upper
228 100
226 27.9 20.4 30.6
229 22.6 16.0 24.0

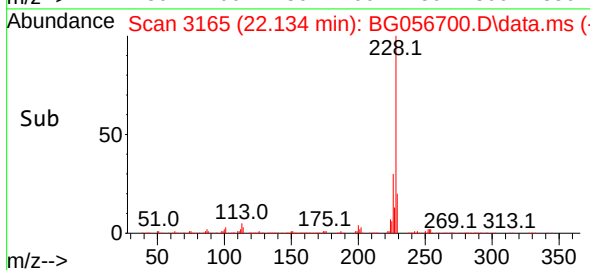
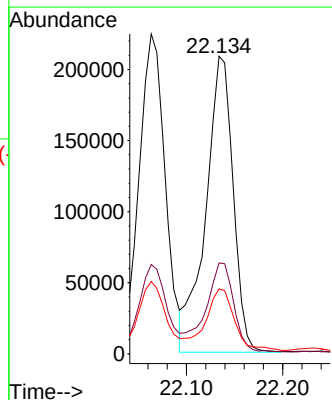
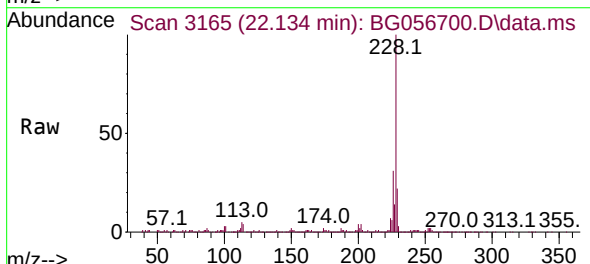
Manual Integrations
APPROVED

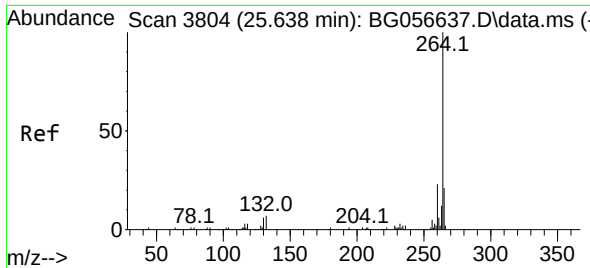
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#83
Chrysene
Concen: 54.681 ng m
RT: 22.134 min Scan# 3165
Delta R.T. -0.006 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

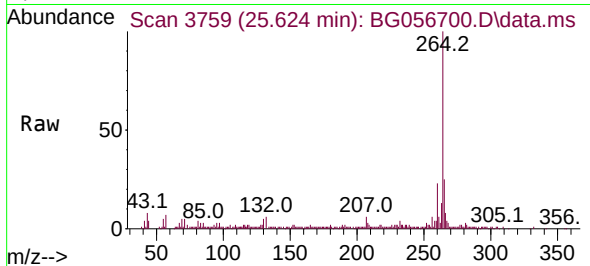
Tgt Ion:228 Resp: 412561
Ion Ratio Lower Upper
228 100
226 30.6 23.0 34.6
229 21.9 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.624 min Scan# 31
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

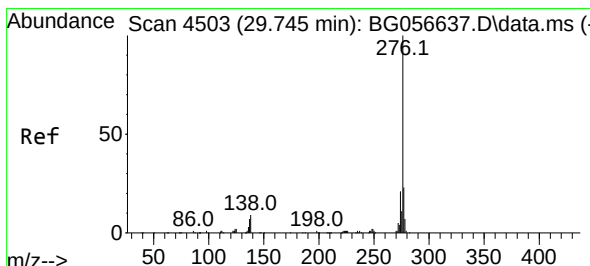
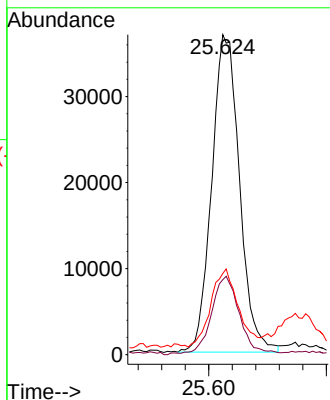
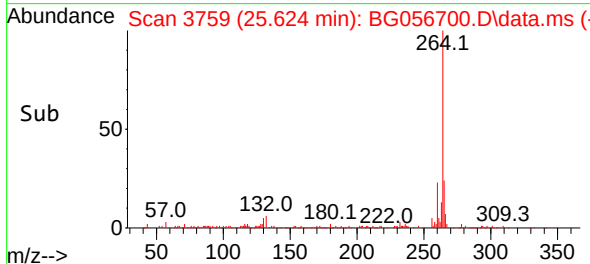
Instrument :
BNA_G
ClientSampleId :
TP-2



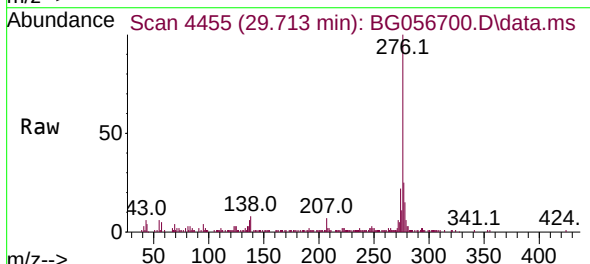
Tgt Ion:264 Resp: 120972
Ion Ratio Lower Upper
264 100
260 23.4 18.6 27.8
265 25.4 17.0 25.4

Manual Integrations
APPROVED

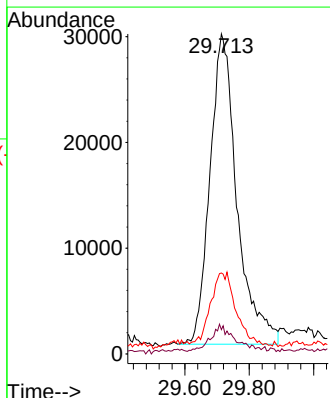
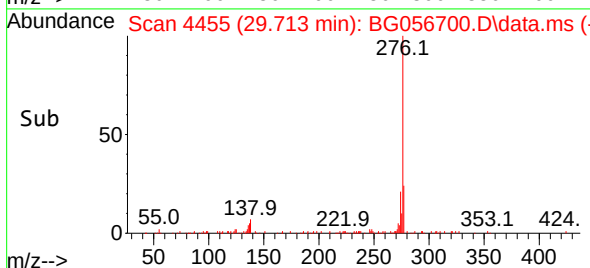
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

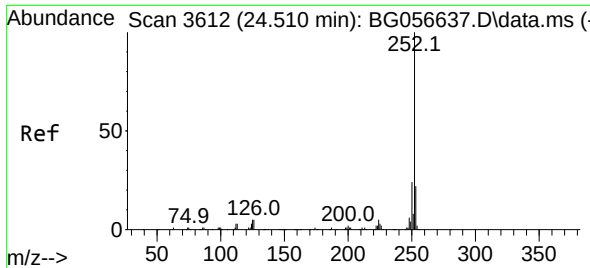


#87
Indeno(1,2,3-cd)pyrene
Concen: 18.065 ng
RT: 29.713 min Scan# 4455
Delta R.T. -0.012 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36



Tgt Ion:276 Resp: 171156
Ion Ratio Lower Upper
276 100
138 7.1 3.8 5.8#
277 0.0 20.3 30.5#





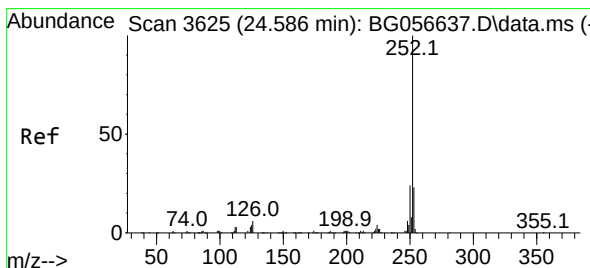
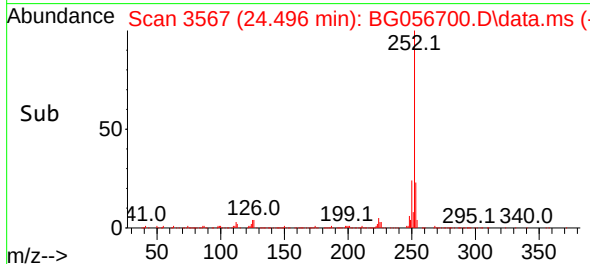
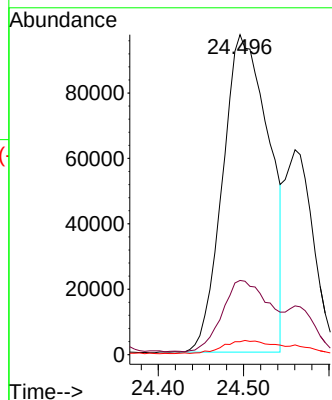
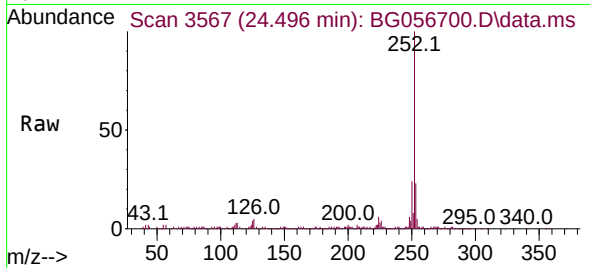
#88
Benzo(b)fluoranthene
Concen: 46.219 ng
RT: 24.496 min Scan# 3578
Delta R.T. -0.000 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Instrument :
BNA_G
ClientSampleId :
TP-2

Tgt Ion:252 Resp: 365292
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 4.0 3.7 5.5

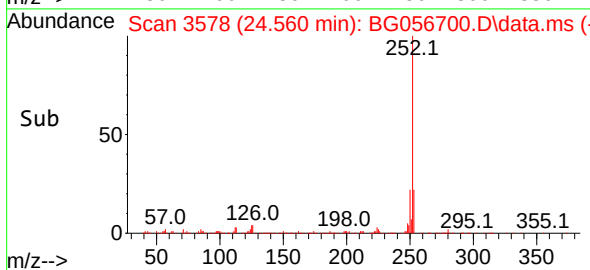
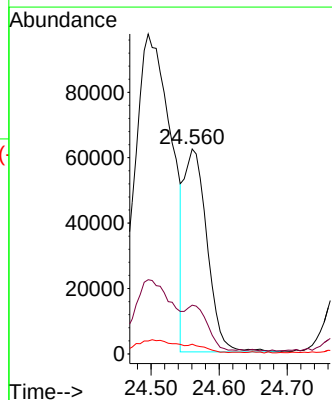
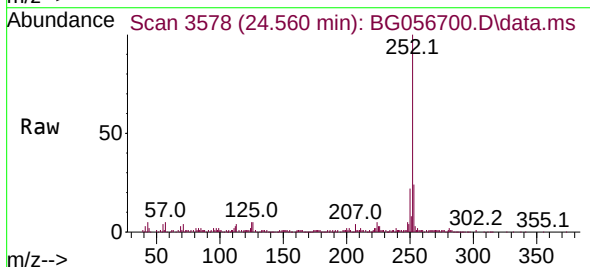
Manual Integrations
APPROVED

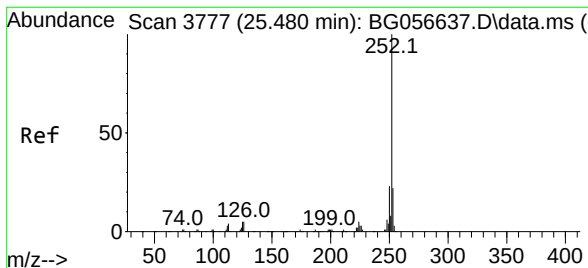
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#89
Benzo(k)fluoranthene
Concen: 18.661 ng m
RT: 24.560 min Scan# 3578
Delta R.T. -0.012 min
Lab File: BG056700.D
Acq: 22 Feb 2023 16:36

Tgt Ion:252 Resp: 145033
Ion Ratio Lower Upper
252 100
253 23.8 18.5 27.7
125 4.7 3.4 5.0





#90

Benzo(a)pyrene

Concen: 47.754 ng m

RT: 25.465 min Scan# 31

Delta R.T. 0.006 min

Lab File: BG056700.D

Acq: 22 Feb 2023 16:36

Instrument :

BNA_G

ClientSampleId :

TP-2

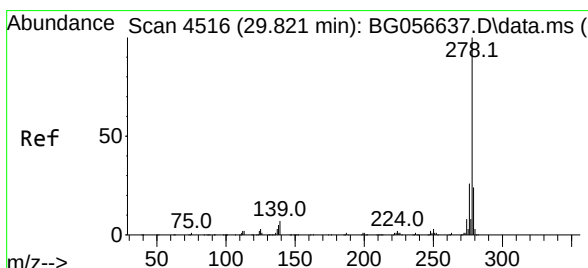
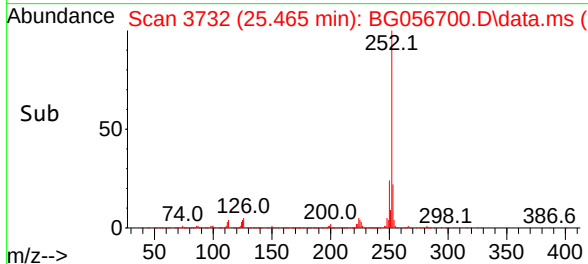
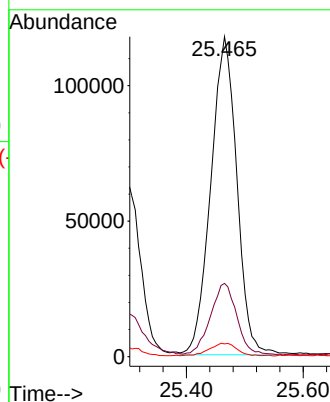
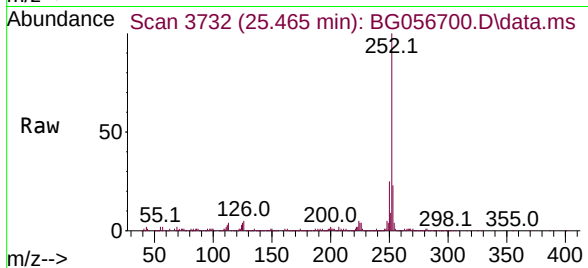
Tgt Ion:252 Resp: 362793

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	4.0	4.0	6.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#91

Dibenzo(a,h)anthracene

Concen: 6.107 ng

RT: 29.772 min Scan# 4465

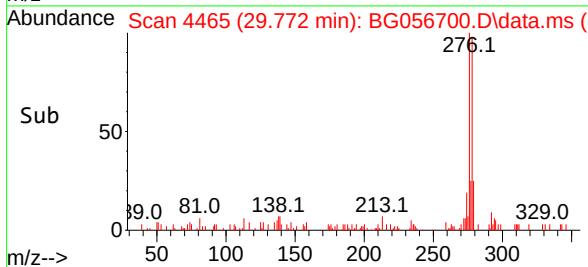
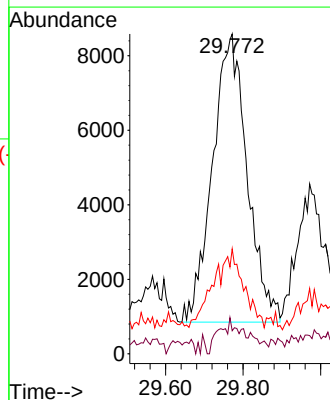
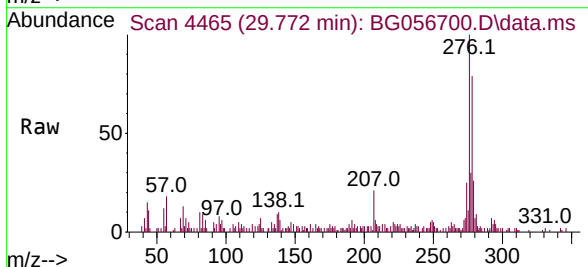
Delta R.T. -0.018 min

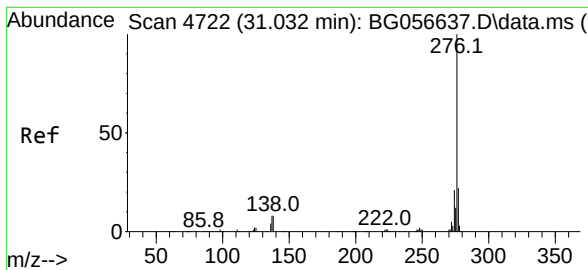
Lab File: BG056700.D

Acq: 22 Feb 2023 16:36

Tgt Ion:278 Resp: 47921

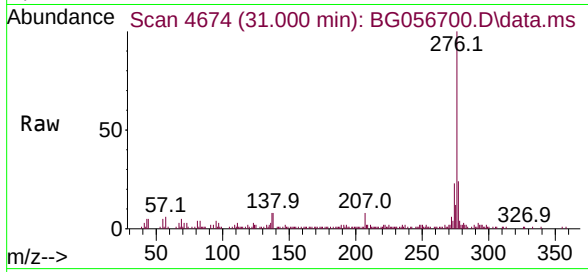
Ion	Ratio	Lower	Upper
278	100		
139	7.2	5.8	8.8
279	32.8	19.6	29.4





#92
 Benzo(g,h,i)perylene
 Concen: 21.712 ng
 RT: 31.000 min Scan# 4674
 Delta R.T. -0.006 min
 Lab File: BG056700.D
 Acq: 22 Feb 2023 16:36

Instrument :
 BNA_G
 ClientSampleId :
 TP-2



Tgt Ion:276 Resp: 166472
 Ion Ratio Lower Upper
 276 100
 277 24.2 17.5 26.3
 138 7.8 6.4 9.6

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 02/23/2023
 Supervised By :Jagrut Upadhyay 02/23/2023

